

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

### Listing of Claims

1. (Currently Amended) A data recording and reproducing apparatus comprising:  
a plurality of ~~recording and reproducing means~~ RAID for recording and/or reproducing data containing video and/or audio data, each RAID having a plurality of HDD and a LAN interface; on and/or from a nonlinearly accessible recording medium;  
~~a parity data recording and reproducing means for recording error-correcting code on a nonlinearly accessible recording medium; and~~  
an error-correcting RAID for recording and reproducing an error-correcting code, having a plurality of HDD and said LAN interface; and  
a plurality of input and output processing means connected to said ~~recording and reproducing means~~ plurality of RAID and said error-correcting RAID through said LAN through a predetermined transmission line for processing said data inputted from the outside to output processed data to said RAID ~~recording and reproducing means~~ in a time-division manner and which process said data outputted from said ~~recording and reproducing means~~ RAID in a time-division manner to output processed data to the outside,  
wherein said plurality of input and output processing means further includes:  
input processing means for dividing said data inputted from the outside to transfer divided data to said ~~plurality of recording and reproducing means~~ RAID, for generating an error-

correcting code of said data, and for transferring said error-correcting code to said ~~parity data~~  
~~recording and reproducing means~~ error-correcting RAID; and

output processing means for correcting erroneous data by using said error-correcting code outputted from said ~~parity data recording and reproducing means~~ error-correcting RAID, and for outputting error-corrected data to the outside if an error is detected from said data outputted from said ~~recording and reproducing means~~ RAID,

wherein said error is detected based on status data, which includes a status of said data and ~~parity data~~ said error-correcting code, that is returned from said ~~recording and reproducing means~~ RAID to one of the plurality of input and output processing means, and is then added to an error table that includes information regarding an error in the recording and/or reproducing of said data and ~~parity data~~ error-correcting code.

2. (Currently Amended) A data recording and reproducing apparatus according to claim 1,

wherein said input and output processing means include recording data restoring means for restoring data or an error-correcting code, for requesting said data or said error correcting code from a second ~~recording and reproducing means~~ RAID, and outputting said restored data or said error-correcting code to said ~~recording and reproducing means~~ RAID after a trouble in which said data or said error-correcting code cannot be recorded on said ~~recording and reproducing means~~ RAID had been removed.

3. (Currently Amended) A data recording and reproducing apparatus according to claim 1, wherein said ~~transmission line~~ LAN interface is ethernet.

4. (Currently Amended) A data recording and reproducing apparatus according to claim 1, wherein said ~~transmission line~~ LAN interface is an IEEE 1394 transmission line.

5. (Currently Amended) A data recording and reproducing apparatus according to claim 1, wherein said ~~transmission line~~ LAN interface is a fibre channel.

6. (Currently Amended) A data recording and reproducing method comprising the steps of:

processing data containing video and/or audio data inputted from the outside to output processed data to a plurality of ~~recording and reproducing means~~ RAID in a time-division manner, each RAID having a plurality of HDD and a LAN interface;

~~recording said data on a nonlinearly accessible recording medium by a first one of said plurality of recording and reproducing means;~~

~~recording and reproducing parity data an error-correcting code on an error-correcting RAID; on a nonlinearly accessible recording medium by a second of said plurality of recording and reproducing means;~~

~~wherein the second of said plurality of recording and reproducing means is a parity data recording and reproducing means;~~

~~reproducing said recorded data from said nonlinearly accessible recording medium;~~

outputting said reproduced data from said ~~recording and reproducing means~~  
RAIDs in a time-division manner; and

processing said outputted data and outputting said processed data to the outside  
comprising the steps of:

a first step of dividing and outputting said data inputted from the outside  
to said plurality of ~~recording and reproducing means~~ RAID from a plurality of input and and  
output processing means connected to said RAID by the network interface, generating an error-  
correcting code of said data and outputting said error-correcting code;

a second step of recording said divided data on said recording medium by  
a first of said plurality of ~~recording and reproducing means~~ RAID and recording said error-  
correcting code on said recording medium by said error-correcting RAID a second of said  
~~plurality recording and reproducing means~~;

a third step of reproducing said data from said recording medium by the  
first of said plurality of ~~recording and reproducing means~~ RAID, reproducing said error-  
correcting code from said recording medium by said ~~second of said plurality of recording and~~  
~~reproducing means~~ error-correcting RAID and outputting said reproduced data and said  
reproduced error-correcting code in a time-division manner through the LAN interface a  
~~predetermined transmission line~~; and

a fourth step of correcting erroneous data by using said error-correcting  
code outputted from said ~~second of said plurality recording and reproducing means~~ error  
correcting RAID and outputting said error-corrected data to the outside if an error is detected  
from said data outputted from said ~~second of said recording and reproducing means~~ error  
correcting RAID,

wherein said error is detected based on status data, which includes a status of said data and ~~parity data~~ said error correcting code, that is returned from said ~~recording and reproducing means~~ RAID to one of ~~the~~ a plurality of the input and output processing means;

a fifth step of generating an error table that includes information regarding an error in the recording and/or reproducing of said data and ~~parity data~~ said error correcting code.

7. (Currently Amended) A data recording and reproducing method according to claim 6, wherein said first step further includes a data restoring step of restoring said data or said error-correcting code, for requesting said data or said error correcting code from a ~~second recording and reproducing means~~ RAID, and outputting said restored data or said restored error-correcting code to said ~~recording and reproducing means~~ RAID after a trouble in which said data or said error-correcting code cannot be recorded on said ~~recording and reproducing means~~ RAID had been removed.

8. (Currently Amended) A data recording and reproducing method according to claim 6, wherein said ~~predetermined transmission~~ LAN interface line is ethernet.

9. (Currently Amended) A data recording and reproducing method according to claim 6, wherein said ~~transmission line~~ LAN interface is an IEEE 1394 transmission line.

10. (Currently Amended) A data recording and reproducing method according to claim 6, wherein said ~~transmission line~~ LAN interface is a fibre channel.